BRUHAT BENGALORU MAHANAGARA PALIKE

Name of Work : Detailed Estimate for Maintenance of UGD Lines in Kuvempunagara areas in Ward No -11 (Kuvempunagara.)

H/A : P 3295 14th Finance Commission Works -UGD Works

Job Code : 011-19-000010 — *Est. Cost Rs. 7.50 Lakhs*

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
1	KSRRB M200-24. Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials upto a lead of 1000 metrers, stacking serviceable and unserviceable materials seperately complete as per specifications. MORTH Specification No. 202 (P.140/I.18.47 PW, P & IWTD, BENGALURU CIRCLE - SR 2018-19)	Cum							
	For Sanitary Line Trenches		1	60.00	1.50	0.30	27.00		
	For Sanitary Line-Sub Line		5	4.20	1.50	0.30	9.45		
	Basic Rate	899.00					**36.45**	952.94	**34735.00**
	Add Area Weightage 6%	53.94							
	Total	952.94							
2	KSRB 2-2.2: Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, **in hard soil** not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. No. KBS 2.1 (b) / 2.3.5 (P.6/I.2.4 PW, P & IWTD, BENGALURU CIRCLE - SR 2018-19)	Cum							
	For Sanitary Line Trenches		1	60.00	1.50	1.50	135.00		
	For Sanitary Line-Sub Line		5	4.20	1.50	1.50	47.25		
	For Man Holes		3	3.14(1.68)2		1.80	11.96		
				4			**194.21**		
	Deductions For Man Holes		3	1.22	1.50	1.50	8.24		
							185.97		
	Consider 60% Of the Qty								
	Basic Rate	449.00					**111.58**	475.94	**53108.00**
	Add Area Weightage 6%	26.94							
	Total	475.94							

	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
3	KSRB 2-2.4 : Excavation 1.5m and above in width soft rock without blasting for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches not exceeding 1.5 m. in depth, stacking the excavated stuff from edges of excavation with lead upto 50m including cost of explosives, labour and HOM of equipment complete as per specifications. specification. No. KBS 2.1 .C / 2.9.4/2.18 / 2.19 (P.6 / I.2.4 PW, P & IWTD, BENGALURU CIRCLE - SR 2018-19)	Cum							
	Consider 40% Of the Total Qty Item No.3						**74.39**	1506.26	**112050.00**
	Basic Rate	1421.00							
	Add Area Weightage 6%	85.26							
	Total	1506.26							
4	KSRB 12-3.9 : Providing and laying in position plain cement concrete of mix 1:4:8 (as per design) using 40mm and down size graded granite /trap metal for haunching of 450mm internal diameter stoneware pipes, concrete machine mixed laid in layers not exceeding 15 cms thick, well compacted, including cost of materials, labour charges, form work, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1 / 4.2 (P.73/I.11.27 PW, P & IWTD, BENGALURU CIRCLE - SR 2018-19)	Mtr							
	Bed Concrete Work								
	For Sanitary Line-Main Line		1	60.00			60.00		
	For Sanitary Line-Sub Line		5	4.20			21.00		
							81.00		
	Deductions For Man Holes		3	1.22			3.66		
							77.34	1389.66	**107476.00**
	Basic Rate	1311.00							
	Add Area Weightage 6%	78.66							
	Total	1389.66							
5	KSRB 12-1.6 : Providing and laying in position to required level or slope 300 mm internal diameter salt glazed stoneware pipes grade A and jointing with stiff mixture of cement mortar in proportion of 1:1, testing of pipes and joints,including cost of materials, labour charges complete as per specifications. Specification No. KBS 12.2.5/12.7 (P.71/I.11.6 PW, P & IWTD, BENGALURU CIRCLE - SR 2018-19)	Mtr							
	For Sanitary Line-Main Line		1	60.00			60.00		
	Deductions For Man Holes		3	1.22			3.66		
							56.34	668.86	**37684.00**
	Basic Rate	631.00							
	Add Area Weightage 6%	37.86							
	Total	668.86							

	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
6	KSRB 12-1.4: Providing and laying in position to required level or slope 230 mm internal diameter salt glazed stoneware pipes grade A and jointing with stiff mixture of cement mortar in proportion of 1:1, testing of pipes and joints,including cost of materials, labour charges complete as per specifications. Specification No. KBS 12.2.5/12.7 (P.71/I.11.4 PW, P & IWTD, BENGALURU CIRCLE - SR 2018-19)	Mtr							
	For Sanitary Line-Sub Line		5	4.20			**21.00**	568.16	**11931.00**
	Basic Rate	536.00							
	Add Area Weightage 6%	32.16							
	Total	568.16							
7	KSRB 12-5.3: Constructing brick masonry circular type manhole 1.22 m internal dia at bottom 1.68 m deep and 0.56m dia at top, with table moulded and non modular bricks of class designation 50 in cement mortar 1:4, inside cement plaster 12mm thick with cement mortar 1:3, finished with a floating coat of neat cement, foundation concrete 1:3:6 mix using 40mm and down size granite metal and making necessary channel in cement concrete 1:2:4 mix with 20mm and down size granite metal, finished with a floating coat of neat cement, with S.F.R.C. cover and frame (heavy duty, HD-20 grade designation) 560mm internal diameter confirming to IS :12592, total weight length of cover and frame to be not less than 182 kg, fixed in cement concrete 1:2:4 20mm and down size broken granite metal, providing and removing centering, shuttering including cost of materials, labour charges, HOM of mechineries complete as per specifications. (Excavation, footrests and 12mm thick cement plaster on the external surface shall be paid seperately). Specification No. KBS 12.4 (P.74/I.11.39 PW, P & IWTD, BENGALURU CIRCLE - SR 2018-19)	Nos							
	For Man Holes		3				**3**	31077.08	**93231.00**
	Basic Rate	29318.00							
	Add Area Weightage 6%	1759.08							
	Total	31077.08							
8	KSRB 2-4: Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m. and lift upto 1.5m. including cost of all labour complete as per specifications. (P.6/I.2.11 PW, P & IWTD, BENGALURU CIRCLE - SR 2018-19)	Cum							
	Consider 70% Of the Total Qty Item No.1						**130.18**	128.26	**16697.00**
	Basic Rate	121.00							
	Add Area Weightage 6%	7.26							
	Total	128.26							

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
9	KSRB 4-1.3: Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregates @ 0.57cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 (P.13/I.4.3 PW, P & IWTD, BENGALURU CIRCLE - SR 2018-19)	Cum							
	For Sanitary Line-Main Line		1	60.00	1.50	0.15	13.50		
	For Sanitary Line-Sub Line		5	4.20	1.50	0.15	4.73		
							18.23		
	Deductions For Man Holes		3	1.22	1.50	0.15	0.82		
	Basic Rate	5102.00					**17.41**	5408.12	**94155.00**
	Add Area Weightage 6%	306.12							
	Total	5408.12							
10	KSRRB M600-6. Cement concrete pavement. Construction Un- reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with 43 grade cement or any other type as per clause 1051 .2.2 M30 at 450 Kg per cum, coarse and fine aggregate conforming to IS : 383, maximum size of coarse aggregate not exceeding 25mm, mixed in a concrete mixer of not less than 0.6cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved curing compound, finishing to lines and grades as per drawing complete as specifications. (P.161/I.22.6.1 PW, P & IWTD, BENGALURU CIRCLE - SR 2018-19)	Cum							
	For Sanitary Line-Main Line		1	60.00	1.50	0.15	13.50		
	For Sanitary Line-Sub Line		5	4.20	1.50	0.15	4.73		
							18.23		
	Deductions For Man Holes		3	1.22	1.50	0.15	0.82		
	Basic Rate	4916.00					**17.41**	5210.96	**90723.00**
	Add Area Weightage 6%	294.96							
	Total	5210.96							

	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
	Vaccum de-Watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power, blade and disc etc,. with all lead and lift. (P.176/ I.22.7 PW, P & IWTD, BENGALURU CIRCLE - SR 2018-19)	Sqm							
	For Sanitary Line-Main Line		1	60.00	1.50		90.00		
	For Sanitary Line-Sub Line		5	4.20	1.50		31.50		
							121.50		
	Deductions For Man Holes		3	1.22	1.50		5.49		
							116.01	72.08	**8362.00**
	Basic Rate	68.00							
	Add Area Weightage 6%	4.08							
	Total	72.08							
12	KSRB 12-6.3 : Providing cast iron footrest and fixing in manhole with 1:3:6 cement concrete block of 20x20x10cms, using 20mm and down size metal of size including cost of materials, labour charges, curing complete as per specifications. Specification No. KBS 12.4.6 (P.75 /I.11.46 PW, P & IWTD, BENGALURU CIRCLE - SR 2018-19)	Nos							
	For Man Holes		3 x3				9	250.16	**2251.00**
	Basic Rate	236.00							
	Add Area Weightage 6%	14.16							
	Total	250.16							
					SUB - TOTAL AMOUNT RS.				**662403.00**
13	G.S.T Charges (12%)								**79488.36**
14	PMC and Third Party Inspection Charges (1%)								**6624.03**
15	Miscellaneous,TenderPremium Charges and Unforeseen Charges	Ls							**1484.61**
					TOTAL AMOUNT RS.				**750000.00**

(Rupees Seven Lakh Fifty Thousand Only)

CERTIFICATE :

1 The work spot has been inspected and found to be necessary.
2 The work spot comes under BBMP Limits.
3 The provisions made in the estimate are necessary and minimum.
4 The estimate is based on PW, P & IWTD, BENGALURU CIRCLE - SR 2018-19.

Assistant Engineer 16/2/19.
Project

Assistant Executive Engineer
Project Division
Yelhanka Zone
BBMP Bangalore

Executive Engineer 16/2/19
Project Division
Yelhankha Zone
BBMP Bangalore

Administrative Approval

Accorded For Rs. 7.50 lakhs
Head of A/C P-3295
CER NO : 26 Dt: 18/02/19

E.E. (Project) 18/2

Technical Sanction

Accorded For Rs. 7.50 lakhs
Head of A/C P-3295
CER NO : 27 Dt: 18/02/19

E.E. (Project) 18/2